

AMENDMENTS TO THE CLAIMS:

Please amend Claims 17-21 as follows:

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Claim 1. - Claim 16. (Previously Cancelled)

*C* 17. (Thrice Amended) An integrated controller comprising a machine controller, sensory electronics and a user-interface, for use with a part-forming machine, comprising:

a computer having a data interface;

sensory electronics in communication with said data interface

of said computer, said sensory electronics acquiring sensory data regarding the status of a formed part relative to the mold of the part-forming machine, and outputting said sensory data to said computer via said data interface;

a program for analyzing said sensory data from said sensory electronics and controlling the part-forming machine and said sensory electronics in response to said sensory data; and

means for displaying information, said display means in communication with said computer,

wherein said sensory electronics is at least one vision sensor, wherein said sensory electronics functionally communicates with said data interface of said computer, and wherein the injection-molding machine is functionally communicatable with said data interface of said computer.

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18. (Thrice Amended) An integrated controller comprising a machine controller, sensory electronics and a user-interface, for use with a part-forming machine, comprising:

a computer having a data interface;

sensory electronics in communication with said data interface of said computer, said sensory electronics acquiring sensory data regarding the status of a formed part relative to the mold of the part-forming machine, and outputting said sensory to said computer via said data interface;

a program for analyzing said sensory data from said sensory electronics and controlling the part-forming machine and said sensory electronics in response to said sensory data; and

means for displaying information, said display means in communication with said computer,

wherein said sensory electronics is at least one infrared sensor, wherein said sensory electronics functionally communicates with said data interface of said computer, and wherein the injection-molding machine is functionally communicatable with said data interface of said computer.

19. (Thrice Amended) An integrated controller comprising a machine controller, sensory electronics and a user-interface, for use with a part-forming machine, comprising:

a computer having a data interface;

sensory electronics in communication with said data interface of said computer, said sensory electronics acquiring sensory data regarding the status of a formed part relative to the mold of the part-forming machine, and outputting said sensory to said computer via said data interface;

a program for analyzing said sensory data from said sensory electronics and controlling the part-forming machine and said sensory electronics in response to said sensory data; and

means for displaying information, said display means in communication with said computer,

wherein said sensory electronics is at least one air pressure sensor, wherein said sensory electronics functionally communicates with said data interface of said computer, and wherein the injection-molding machine is functionally communicatable with said data interface of said computer.

20. (Thrice Amended) An integrated controller comprising a machine controller, sensory electronics and a user-interface, for use with a part-forming machine, comprising:

a computer having a data interface;

sensory electronics in communication with said data interface of said computer, said sensory electronics acquiring sensory data regarding the status of a formed part relative to the mold of the part-forming machine, and outputting said sensory to said computer via said data interface;

a program for analyzing said sensory data from said sensory electronics and controlling the part-forming machine and said sensory electronics in response to said sensory data; and

means for displaying information, said display means in communication with said computer,

wherein said sensory electronics is at least one vacuum sensor, wherein said sensory electronics functionally communicates with said data interface of said computer, and wherein the injection-molding machine is functionally communicatable with said data interface of said computer.

21. (Thrice Amended) An integrated controller comprising a machine controller, sensory electronics and a user-interface, for use with a part-forming machine, comprising:

a computer having a data interface;

sensory electronics in communication with said data interface of said computer, sensory electronics in communication with said data interface of said computer, said sensory electronics acquiring sensory data regarding the presence or absence of a formed part within the mold of the part-forming machine, and outputting said sensory to said computer via said data interface;

a program for analyzing said sensory data from said sensory electronics and controlling the part-forming machine and said sensory electronics in response to said sensory data; and

means for displaying information, said display means in communication with said computer,

wherein said sensory electronics is at least one ultrasonic sensor, wherein said sensory electronics functionally communicates with said data interface of said computer, and wherein the injection-molding machine is functionally communicatable with said data interface of said computer.

Claim 22. - Claim 33. (Previously Cancelled)

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